



Dart Aerospace Ltd.  
1270 Aberdeen St  
Hawkesbury, ON  
K6A 1K7  
Canada

Tel (613) 632-5200  
Fax 613 632-5246

PRELIMINARY ISSUE

650.8401

Job Sheet 210964



Part No: 650.8401

Job Qty: 3 pcs

Part Name: Plunger



139 Valve

Part Weight: 0 lbs

Status: New

Priority: Medium

Job Created: 6/29/20

Job Tracking No:

Due Date: 7/15/20

Created By: Jennifer Renwick

Type: SOLD

Description:

Note: 650.8400 REV.PA2 IPP REV:A 20.06.18 NEW ISSUE DD VERF:JFS

Ship Via:

## Bill of Materials

## Job Routing

| Op<br>No | Operation  | Qty   | Start Date | Due<br>Date | Standard     |                | Workcenter/Supplier             | Sign-off                   |
|----------|------------|-------|------------|-------------|--------------|----------------|---------------------------------|----------------------------|
|          |            |       |            |             | Setup<br>Hrs | Run<br>Hrs     | Workcenter / Supplier Lead Time |                            |
| 100      | SL-154 - 1 | 3 pcs | 7/15/20    | 1.00        | 0.75         | Doosan - 1     |                                 | DAS<br>33 20/07/15<br>9-89 |
|          |            |       |            |             |              | NLX 2500SY - 1 |                                 |                            |
|          |            |       |            |             |              | SL-154 - 1     |                                 |                            |
|          |            |       |            |             |              | SL-2500Y - 1   |                                 |                            |
| 110      | QC 2       | 3 pcs | 7/15/20    | 0.00        | 0.00         | QC 2 - 1       |                                 | DAS<br>33 20/07/15<br>9-89 |
|          |            |       |            |             |              | QC 2 - 12      |                                 |                            |
|          |            |       |            |             |              | QC 2 - 14      |                                 |                            |
|          |            |       |            |             |              | QC 2 - 17      |                                 |                            |
|          |            |       |            |             |              | QC 2 - 19      |                                 |                            |
|          |            |       |            |             |              | QC 2 - 2       |                                 |                            |
|          |            |       |            |             |              | QC 2 - 20      |                                 |                            |
|          |            |       |            |             |              | QC 2 - 22      |                                 |                            |
|          |            |       |            |             |              | QC 2 - 23      |                                 |                            |
|          |            |       |            |             |              | QC 2 - 25      |                                 |                            |
|          |            |       |            |             |              | QC 2 - 32      |                                 |                            |
|          |            |       |            |             |              | QC 2 - 33      |                                 |                            |
|          |            |       |            |             |              | QC 2 - 35      |                                 |                            |
|          |            |       |            |             |              | QC 2 - 39      |                                 |                            |
|          |            |       |            |             |              | QC 2 - 4       |                                 |                            |
|          |            |       |            |             |              | QC 2 - 40      |                                 |                            |
|          |            |       |            |             |              | QC 2 - 44      |                                 |                            |
|          |            |       |            |             |              | QC 2 - 45      |                                 |                            |
|          |            |       |            |             |              | QC 2 - 48      |                                 |                            |
|          |            |       |            |             |              | QC 2 - 49      |                                 |                            |
|          |            |       |            |             |              | QC 2 - 50      |                                 |                            |
|          |            |       |            |             |              | QC 2 - 51      |                                 |                            |
|          |            |       |            |             |              | QC 2 - 52      |                                 |                            |
|          |            |       |            |             |              | QC 2 - 57      |                                 |                            |
|          |            |       |            |             |              | QC 2 - 62      |                                 |                            |
|          |            |       |            |             |              | QC 2 - 63      |                                 |                            |
|          |            |       |            |             |              | QC 2 - 8       |                                 |                            |



**Container No: S289127**  
  
**Part: 650.8401**  
**Job No: 210964**  
**Serial No/Batch: S289127**  
**Revision: REV.PA3**  
**Inspector:**  
**Exp Date:**  
**Instructions:**

**Dart Aerospace Ltd.**  
1270 Aberdeen Street  
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TEL : 1 613 832-5200  
Email: sales@dartaero.com  
www.dartaerospace.com

Date: 08/06/20

Plex 7/7/20 11:06 AM Dart.Renwick.Jennifer



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Plex 7/7/20 11:06 AM Dart.Renwick.Jennifer

90121 PEX

|     |                               |       |         |           |                        |                |
|-----|-------------------------------|-------|---------|-----------|------------------------|----------------|
|     |                               |       |         |           | QC 2 - 66              |                |
|     |                               |       |         |           | QC 2 - 64              |                |
|     |                               |       |         |           | QC 2 - 65              |                |
|     |                               |       |         |           | QC 2 - 5               |                |
|     |                               |       |         |           | QC 2 - 71              |                |
|     |                               |       |         |           | QC 2 - 73              |                |
|     |                               |       |         |           | QC 2 - 69              |                |
|     |                               |       |         |           | QC 2 - 76              |                |
|     |                               |       |         |           | QC 2 - 86              |                |
|     |                               |       |         |           | QC 2 - 83              |                |
| 120 | QC 8                          | 3 pcs | 7/15/20 | 0.00 0.00 | QC 8 - 12              |                |
|     |                               |       |         |           | QC 8 - 14              | 7/20/07/20     |
|     |                               |       |         |           | QC 8 - 17              |                |
|     |                               |       |         |           | QC 8 - 20              |                |
|     |                               |       |         |           | QC 8 - 25              |                |
|     |                               |       |         |           | QC 8 - 3               |                |
|     |                               |       |         |           | QC 8 - 32              |                |
|     |                               |       |         |           | QC 8 - 33              |                |
|     |                               |       |         |           | QC 8 - 35              |                |
|     |                               |       |         |           | QC 8 - 39              |                |
|     |                               |       |         |           | QC 8 - 4               |                |
|     |                               |       |         |           | QC 8 - 44              |                |
|     |                               |       |         |           | QC 8 - 45              |                |
|     |                               |       |         |           | QC 8 - 49              |                |
|     |                               |       |         |           | QC 8 - 58              |                |
|     |                               |       |         |           | QC 8 - 8               |                |
|     |                               |       |         |           | QC 8 - 9               |                |
|     |                               |       |         |           | QC 8 - 68              |                |
|     |                               |       |         |           | QC 8 - 67              |                |
|     |                               |       |         |           | QC 8 - 1 (A)           |                |
|     |                               |       |         |           | QC 8 - 47              |                |
|     |                               |       |         |           | QC 8 - 40              |                |
|     |                               |       |         |           | QC 8 - 52              |                |
|     |                               |       |         |           | QC 8 - 23              |                |
|     |                               |       |         |           | QC 8 - 57              |                |
|     |                               |       |         |           | QC 8 - 76              |                |
|     |                               |       |         |           | QC 8 - 61              |                |
|     |                               |       |         |           | QC 8 - 66              |                |
|     |                               |       |         |           | QC 8 - 73              |                |
|     |                               |       |         |           | QC 8 - 82              |                |
| 130 | Outsource - 15 - Nickel Plate | 3 pcs | 7/15/20 | 0.00 0.00 | GROD2                  | 2020-07-29     |
| 140 | Packaging 2-1 - Receive - B4B | 3 pcs | 7/15/20 | 0.00 0.00 | Packaging 2 - 1 - B4B  |                |
|     |                               |       |         |           | Packaging 2 - 2 - B4B  |                |
|     |                               |       |         |           | Packaging 2 - 3 - B4B  |                |
|     |                               |       |         |           | Packaging 2 - 5 - B4B  |                |
|     |                               |       |         |           | Packaging 2 - 4 - B4B  | 16 AUG 06 2020 |
|     |                               |       |         |           | Packaging 2 - 6 - B4B  |                |
|     |                               |       |         |           | Packaging 2 - 7 - B4B  |                |
|     |                               |       |         |           | Packaging 2 - 8 - B4B  |                |
|     |                               |       |         |           | Packaging 2 - 9 - B4B  |                |
|     |                               |       |         |           | Packaging 2 - 10 - B4B |                |
|     |                               |       |         |           | Packaging 2 - 11 - B4B |                |
|     |                               |       |         |           | Packaging 2 - 12 - B4B |                |
|     |                               |       |         |           | Packaging 2 - 13 - B4B |                |
|     |                               |       |         |           | Packaging 2 - 14 - B4B |                |
|     |                               |       |         |           | Packaging 2 - 15 - B4B |                |
|     |                               |       |         |           | Packaging 2 - 16 - B4B |                |
|     |                               |       |         |           | Packaging 2 - 17 - B4B |                |
|     |                               |       |         |           | Packaging 2 - 18 - B4B |                |



|                                 |       |         |           |                        |                        |             |
|---------------------------------|-------|---------|-----------|------------------------|------------------------|-------------|
|                                 |       |         |           |                        | Packaging 2 - 19 - B4B |             |
|                                 |       |         |           |                        | Packaging 2 - 20 - B4B |             |
|                                 |       |         |           |                        | Packaging 2 - 21 - B4B |             |
|                                 |       |         |           |                        | Packaging 2 - 22 - B4B |             |
|                                 |       |         |           |                        | Packaging 2 - 23 - B4B |             |
|                                 |       |         |           |                        | Packaging 2 - 24 - B4B |             |
|                                 |       |         |           |                        | Packaging 2 - 25 - B4B |             |
|                                 |       |         |           |                        | Packaging 2 - 26 - B4B |             |
|                                 |       |         |           |                        | Packaging 2 - 37 - B4B |             |
|                                 |       |         |           |                        |                        |             |
| 150 QC 6                        | 3 pcs | 7/15/20 | 0.00 0.00 | QC 6 - 9               |                        |             |
|                                 |       |         |           | QC 6 - 68              |                        |             |
|                                 |       |         |           | QC 6 - 61              |                        | DAS         |
|                                 |       |         |           | QC 6 - 40              |                        | 82          |
|                                 |       |         |           | QC 6 - 81              |                        | 9-89        |
|                                 |       |         |           | QC 6 - 82              |                        | AUG 17 2020 |
| 160 Packaging 3-1 - Stock - B4B | 3 pcs | 7/15/20 | 0.00 0.00 | Packaging 3 - 1 - B4B  |                        |             |
|                                 |       |         |           | Packaging 3 - 2 - B4B  |                        |             |
|                                 |       |         |           | Packaging 3 - 3 - B4B  |                        |             |
|                                 |       |         |           | Packaging 3 - 4 - B4B  |                        |             |
|                                 |       |         |           | Packaging 3 - 5 - B4B  |                        |             |
|                                 |       |         |           | Packaging 3 - 6 - B4B  |                        |             |
|                                 |       |         |           | Packaging 3 - 7 - B4B  |                        |             |
|                                 |       |         |           | Packaging 3 - 8 - B4B  |                        |             |
|                                 |       |         |           | Packaging 3 - 9 - B4B  |                        |             |
|                                 |       |         |           | Packaging 3 - 10 - B4B |                        |             |
|                                 |       |         |           | Packaging 3 - 11 - B4B |                        |             |
|                                 |       |         |           | Packaging 3 - 12 - B4B |                        |             |
|                                 |       |         |           | Packaging 3 - 13 - B4B |                        |             |
|                                 |       |         |           | Packaging 3 - 14 - B4B |                        |             |
|                                 |       |         |           | Packaging 3 - 15 - B4B |                        |             |
|                                 |       |         |           | Packaging 3 - 16 - B4B |                        |             |
|                                 |       |         |           | Packaging 3 - 17 - B4B |                        |             |
|                                 |       |         |           | Packaging 3 - 18 - B4B |                        |             |
|                                 |       |         |           | Packaging 3 - 19 - B4B |                        |             |
|                                 |       |         |           | Packaging 3 - 20 - B4B |                        |             |
|                                 |       |         |           | Packaging 3 - 21 - B4B |                        |             |
|                                 |       |         |           | Packaging 3 - 22 - B4B |                        |             |
|                                 |       |         |           | Packaging 3 - 23 - B4B |                        |             |
|                                 |       |         |           | Packaging 3 - 24 - B4B |                        |             |
|                                 |       |         |           | Packaging 3 - 25 - B4B |                        |             |
|                                 |       |         |           | Packaging 3 - 26 - B4B |                        |             |
|                                 |       |         |           | Packaging 3 - 37 - B4B |                        |             |
| 170 QC 21 - SA                  | 3 pcs | 7/15/20 | 0.00 0.00 | QC 21 - SA - 21        |                        | DAS         |
|                                 |       |         |           | QC 21 - SA - 70        |                        | 21          |
|                                 |       |         |           | QC 21 - SA - 9         |                        | 9-89        |

Part Op 100 - \*\*\*\*CRITICAL PART - EXTREME CARE MUST BE TAKEN\*\*\*\* MUST ENSURE THE COMPONENTS ARE NEVER DAMAGE\*\*\*\*

Descriptions: NEVER DAMAGE\*\*\*\* 1-Machine as per folio F FOLIO REV: AA DWG REV: PA2 2-Debur

110 - QC2- Inspect parts off machine FAI/FAIB

120 - QC8- Inspect parts - second check

130 - -Issue P/O; 40808 ELECTROLESS NICKEL PLATED -Material type; STEEL 1215 -Certificate of Conformity is required

140 - Certificate of Conformity is required

150 - QC6- All purchased or subcontracted products

160 - Identify as per dwg & Stock \*\*\*\*CRITICAL PART - EXTREME CARE MUST BE TAKEN\*\*\*\* MUST ENSURE THE COMPONENTS ARE NEVER DAMAGE\*\*\*\*

170 - QC21- Final Inspection - Work Order Release

## Job BOM

| Part / Item | Component Name                  | Quantity         | Operation      | Container      |
|-------------|---------------------------------|------------------|----------------|----------------|
| M1215R0.625 | 1215 Round Bar, 0.625" Diameter | .4125 (.1375 ea) | 100-SL-154 - 1 | <u>5286085</u> |



| Job Allocations                    |                |          |           |           |
|------------------------------------|----------------|----------|-----------|-----------|
| Operation                          | Component Part | Required | Inventory | Allocated |
| 100-SL-154 - 1                     | M1215R0.625    | 0        | 0         | 0         |
| Part Specifications                |                |          |           |           |
| Specifications could not be found. |                |          |           |           |

Plex 7/7/20 11:06 AM Dart.Renwick.Jennifer





Entered:

Date:

## WORK ORDER NON-CONFORMANCE / ROUTE UPDATE

NCR No.

Route update only



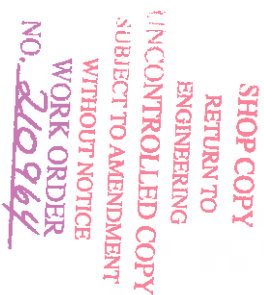
|                                                                                                                                                                                                                                                                                                                                                                                     |                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |                 |               |                  |                  |         |                       |               |                   |          |           |                 |         |        |                      |      |        |                              |                                 |                    |                   |               |             |                 |         |            |              |                |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------------|---------------|------------------|------------------|---------|-----------------------|---------------|-------------------|----------|-----------|-----------------|---------|--------|----------------------|------|--------|------------------------------|---------------------------------|--------------------|-------------------|---------------|-------------|-----------------|---------|------------|--------------|----------------|--|
| Job: _____<br>Part No. _____                                                                                                                                                                                                                                                                                                                                                        |                                 | <b>DISPOSITION</b><br>Rework <input type="checkbox"/><br>Scrap <input type="checkbox"/><br>Use-as-is <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                        | <b>DEPARTMENT/PROCESS</b><br>Skid-tube <input type="checkbox"/> Eng. (Non-AW) <input type="checkbox"/> Engineering <input type="checkbox"/><br>Machining <input type="checkbox"/> Prod. Eng. Coord. <input type="checkbox"/> Water Jet <input type="checkbox"/><br>Large Fab <input type="checkbox"/> Rec/Store/Packaging <input type="checkbox"/> Supplier <input type="checkbox"/><br>Finishing <input type="checkbox"/> Quality <input type="checkbox"/> |  |                 |               |                  |                  |         |                       |               |                   |          |           |                 |         |        |                      |      |        |                              |                                 |                    |                   |               |             |                 |         |            |              |                |  |
| Date:                                                                                                                                                                                                                                                                                                                                                                               | Sequence #:                     | QTY Affected:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                        | MRB (QSI042)                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |                 |               |                  |                  |         |                       |               |                   |          |           |                 |         |        |                      |      |        |                              |                                 |                    |                   |               |             |                 |         |            |              |                |  |
| Description Work Order Deviation                                                                                                                                                                                                                                                                                                                                                    |                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Disposition            |                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |                 |               |                  |                  |         |                       |               |                   |          |           |                 |         |        |                      |      |        |                              |                                 |                    |                   |               |             |                 |         |            |              |                |  |
|                                                                                                                                                                                                                                                                                                                                                                                     |                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Completed By           |                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |                 |               |                  |                  |         |                       |               |                   |          |           |                 |         |        |                      |      |        |                              |                                 |                    |                   |               |             |                 |         |            |              |                |  |
|                                                                                                                                                                                                                                                                                                                                                                                     |                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Lead hand / Supervisor |                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |                 |               |                  |                  |         |                       |               |                   |          |           |                 |         |        |                      |      |        |                              |                                 |                    |                   |               |             |                 |         |            |              |                |  |
|                                                                                                                                                                                                                                                                                                                                                                                     |                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | QC / QA Coordinator    |                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |                 |               |                  |                  |         |                       |               |                   |          |           |                 |         |        |                      |      |        |                              |                                 |                    |                   |               |             |                 |         |            |              |                |  |
| <b>Root Cause</b><br>Operator <input type="checkbox"/><br>Manufacturing Process <input type="checkbox"/><br>Equip/Tooling <input type="checkbox"/><br>Handling/Preservation <input type="checkbox"/><br>Material <input type="checkbox"/><br>Product Improvement <input type="checkbox"/><br>Process Improvement <input type="checkbox"/><br>Human Factors <input type="checkbox"/> |                                 | <b>FAULT CATEGORY</b><br><table border="1"> <tr> <td>Pressure/Forced</td> <td>Contamination</td> <td>Power Loss/Surge</td> <td>Positioned Wrong</td> </tr> <tr> <td>Bending</td> <td>Misaligned/off center</td> <td>Folio/Program</td> <td>Outside Tolerance</td> </tr> <tr> <td>Crushing</td> <td>BOM/Route</td> <td>Grain Direction</td> <td>Drawing</td> </tr> <tr> <td>Cracks</td> <td>Broken/Damage/Defect</td> <td>Weld</td> <td>Finish</td> </tr> <tr> <td>Crimp/Kink/Ripple/Wave/Twist</td> <td>Incomplete/Unclear Instructions</td> <td>Wrong Stock Pulled</td> <td>Part Lost/Missing</td> </tr> <tr> <td>Marks/Chatter</td> <td>Drill Holes</td> <td>Out of Sequence</td> <td>Misread</td> </tr> <tr> <td>Mislabeled</td> <td>Fit/Function</td> <td>Off-set/Set-up</td> <td></td> </tr> </table> |                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  | Pressure/Forced | Contamination | Power Loss/Surge | Positioned Wrong | Bending | Misaligned/off center | Folio/Program | Outside Tolerance | Crushing | BOM/Route | Grain Direction | Drawing | Cracks | Broken/Damage/Defect | Weld | Finish | Crimp/Kink/Ripple/Wave/Twist | Incomplete/Unclear Instructions | Wrong Stock Pulled | Part Lost/Missing | Marks/Chatter | Drill Holes | Out of Sequence | Misread | Mislabeled | Fit/Function | Off-set/Set-up |  |
| Pressure/Forced                                                                                                                                                                                                                                                                                                                                                                     | Contamination                   | Power Loss/Surge                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Positioned Wrong       |                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |                 |               |                  |                  |         |                       |               |                   |          |           |                 |         |        |                      |      |        |                              |                                 |                    |                   |               |             |                 |         |            |              |                |  |
| Bending                                                                                                                                                                                                                                                                                                                                                                             | Misaligned/off center           | Folio/Program                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Outside Tolerance      |                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |                 |               |                  |                  |         |                       |               |                   |          |           |                 |         |        |                      |      |        |                              |                                 |                    |                   |               |             |                 |         |            |              |                |  |
| Crushing                                                                                                                                                                                                                                                                                                                                                                            | BOM/Route                       | Grain Direction                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Drawing                |                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |                 |               |                  |                  |         |                       |               |                   |          |           |                 |         |        |                      |      |        |                              |                                 |                    |                   |               |             |                 |         |            |              |                |  |
| Cracks                                                                                                                                                                                                                                                                                                                                                                              | Broken/Damage/Defect            | Weld                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Finish                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |                 |               |                  |                  |         |                       |               |                   |          |           |                 |         |        |                      |      |        |                              |                                 |                    |                   |               |             |                 |         |            |              |                |  |
| Crimp/Kink/Ripple/Wave/Twist                                                                                                                                                                                                                                                                                                                                                        | Incomplete/Unclear Instructions | Wrong Stock Pulled                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Part Lost/Missing      |                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |                 |               |                  |                  |         |                       |               |                   |          |           |                 |         |        |                      |      |        |                              |                                 |                    |                   |               |             |                 |         |            |              |                |  |
| Marks/Chatter                                                                                                                                                                                                                                                                                                                                                                       | Drill Holes                     | Out of Sequence                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Misread                |                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |                 |               |                  |                  |         |                       |               |                   |          |           |                 |         |        |                      |      |        |                              |                                 |                    |                   |               |             |                 |         |            |              |                |  |
| Mislabeled                                                                                                                                                                                                                                                                                                                                                                          | Fit/Function                    | Off-set/Set-up                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |                 |               |                  |                  |         |                       |               |                   |          |           |                 |         |        |                      |      |        |                              |                                 |                    |                   |               |             |                 |         |            |              |                |  |
|                                                                                                                                                                                                                                                                                                                                                                                     |                                 | Other/Details:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |                 |               |                  |                  |         |                       |               |                   |          |           |                 |         |        |                      |      |        |                              |                                 |                    |                   |               |             |                 |         |            |              |                |  |



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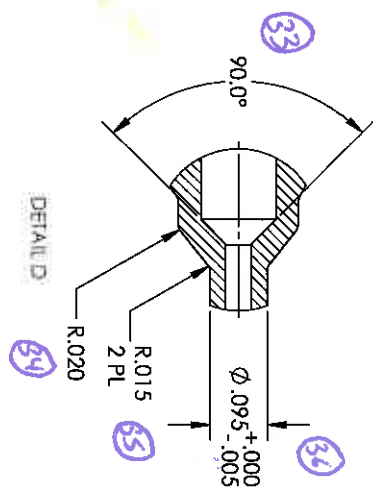
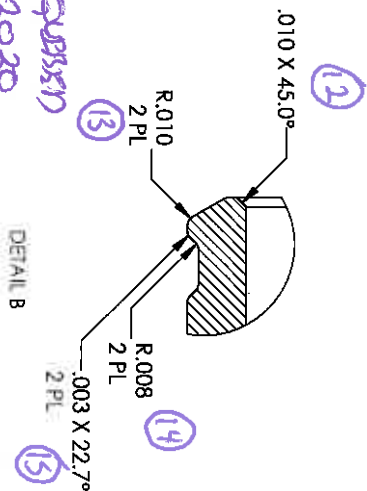
1. FINISH: <sup>OR</sup> MAXIMUM UNLESS OTHERWISE SPECIFIED  
ELECTROLESS NICKEL PLATE IAW ASTM B/733 TYPE A/5 SC 2
2. MATERIAL: AISI 1215 CARBON STEEL IAW AMS 5010 OR  
ASTM A29/A108/A576
3. DEBURR AND BREAK ALL SHARP EDGES
4. IDENTIFY IAW MPP-120
5. DIMENSIONAL LIMITS APPLY AFTER PLATING



|                                                                                           |  |                                 |          |             |      |       |  |
|-------------------------------------------------------------------------------------------|--|---------------------------------|----------|-------------|------|-------|--|
| CITY                                                                                      |  | 1                               | 650.8401 | PUNGER      |      |       |  |
| FIND #                                                                                    |  | PART #                          |          | DESCRIPTION | MATL | SPEC. |  |
| PARTS LIST                                                                                |  |                                 |          |             |      |       |  |
| APICAL INDUSTRIES<br>2408 TRIPLE HEIGHTS DR.<br>OCEANSIDE, CA. 92056-3512 / (760)724-5500 |  |                                 |          |             |      |       |  |
| NEXT ASSY (S)                                                                             |  | 650.5500                        |          |             |      |       |  |
| ORIGINAL DATE                                                                             |  | REVISION                        |          |             |      |       |  |
| DRAWN BY                                                                                  |  | CHECKED BY                      |          |             |      |       |  |
| 1. BAWING                                                                                 |  | J. BEVING                       |          |             |      |       |  |
| 2. BAWING                                                                                 |  | J. BEVING                       |          |             |      |       |  |
| DATE                                                                                      |  | DATE                            |          |             |      |       |  |
| CONTRACT NO.                                                                              |  |                                 |          |             |      |       |  |
| UNLESS OTHERWISE SPECIFIED                                                                |  | DRAWING IS IN METRIC            |          |             |      |       |  |
| 1. ALL DIMENSIONS ARE IN MILLIMETERS                                                      |  | 2. ALL DIMENSIONS ARE IN INCHES |          |             |      |       |  |
| 3. DIMENSIONS ARE IN MILLIMETERS                                                          |  | 4. DIMENSIONS ARE IN INCHES     |          |             |      |       |  |
| 5. DIMENSIONS ARE IN MILLIMETERS                                                          |  | 6. DIMENSIONS ARE IN INCHES     |          |             |      |       |  |
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THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF APICAL INDUSTRIES AND IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, WITHOUT PERMISSION IN WRITING FROM APICAL INDUSTRIES.

PLUNGER REQUEST  
Rev JULY 17, 2020



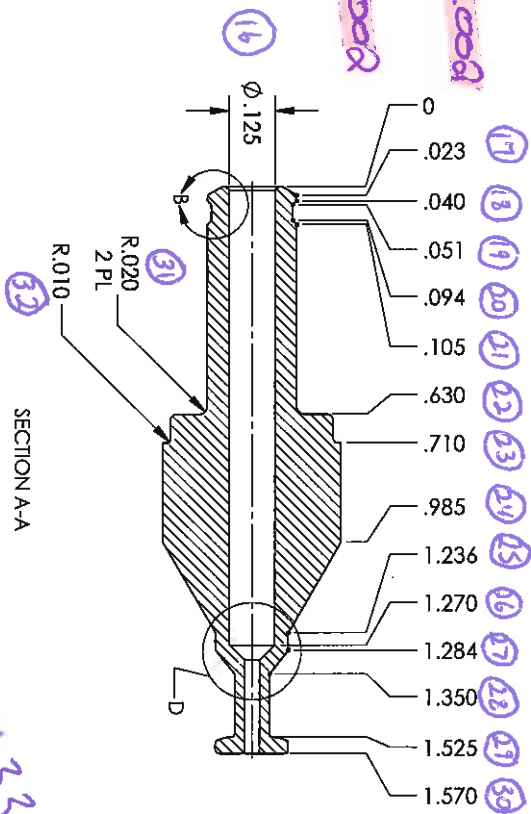
T 12 Groove

T01 4MM G32  
T02 " .008  
G3 1/4 Sphero (S)  
G4 1/8 Drill (S)

Ø .040 ± 0.002

Ø .105 ± 0.002

1.525 ± 0.002



1.335

|                                         |                      |
|-----------------------------------------|----------------------|
| APICAL INDUSTRIES                       |                      |
| 2400 TIMBER HEIGHT DR                   |                      |
| OCEANVIEW, CA 92056-1517 (760) 724-3300 |                      |
| PLUNGER                                 |                      |
| DATE: 07/17/20                          | SCALE: NONE          |
| DRAWN BY: [blank]                       | CHECKED BY: [blank]  |
| DESIGNED BY: [blank]                    | APPROVED BY: [blank] |
| SHEET 1 OF 1                            | 650.8400             |

|                                                               |  |                                     |
|---------------------------------------------------------------|--|-------------------------------------|
| <b>DART AEROSPACE LTD</b>                                     |  | <b>Work Order:</b>                  |
| <b>Description:</b> <u>PLUNGER</u>                            |  | <b>Part Number:</b> <u>650.8401</u> |
| <b>Inspection Dwg:</b> <u>650.8400</u> <b>Rev:</b> <u>PA2</u> |  | <b>Page 1 of 1</b>                  |

### INSPECTION SHEET

|    | Drawing Dimension | Tolerance          | Actual Dimension | Accept | Reject | Method of Inspection | Comments |
|----|-------------------|--------------------|------------------|--------|--------|----------------------|----------|
| 1  | 0,165             | ± 0,005            | 0,167            | ✓      |        | MJP-DV               | JCN      |
| 2  | 0,246             | ± 0,001            | 0,2455           | ✓      |        |                      |          |
| 3  | 0,223             | ± 0,001            | 0,222            | ✓      |        |                      |          |
| 4  | 0,448             | ± 0,005            | 0,447            | ✓      |        |                      |          |
| 5  | 0,200             | ± 0,005            | 0,200            | ✓      |        |                      |          |
| 6  | R 0,008           | ± 0,005            | 0,008            | ✓      |        |                      |          |
| 7  | R 0,078           | ± 0,005            | 0,078            | ✓      |        |                      |          |
| 8  | R 0,010           | ± 0,005            | 0,010            | ✓      |        |                      |          |
| 9  | 0,116             | ± 0,005            | 0,116            | ✓      |        |                      |          |
| 10 | Ø 0,042           | ± 0,004<br>± 0,001 | 0,042            | ✓      |        |                      |          |
| 11 | 0,4884/0,4900     | ± —                | 0,4884           | ✓      |        |                      |          |
| 12 | 0,010 x 45°       | ± 0,005 ± 0,5°     | 0,010 x 45°      | ✓      |        |                      |          |
| 13 | R 0,010           | ± 0,005            | 0,010            | ✓      |        |                      |          |
| 14 | 0,003 x 22,7°     | ± 0,005 ± 0,5°     | 0,003 x 22,7°    | ✓      |        |                      |          |
| 15 | R 0,008           | ± 0,005            | 0,008            | ✓      |        |                      |          |
| 16 | Ø 0,125           | ± 0,004<br>± 0,001 | 0,125            | ✓      |        |                      |          |
| 17 | 0,023             | ± 0,005            | 0,023            | ✓      |        |                      |          |
| 18 | 0,040             | ± 0,0082           | 0,040            | ✓      |        |                      |          |
| 19 | 0,051             | ± 0,005            | 0,051            | ✓      |        |                      |          |
| 20 | 0,094             | ± 0,008            | 0,094            | ✓      |        |                      |          |
| 21 | 0,105             | ± 0,005            | 0,105            | ✓      |        |                      |          |
| 22 | 0,630             | ± 0,005            | 0,630            | ✓      |        |                      |          |
| 23 | 0,710             | ± 0,005            | 0,710            | ✓      |        |                      |          |
| 24 | 0,985             | ± 0,005            | 0,985            | ✓      |        |                      |          |
| 25 | 1,236             | ± 0,005            | 1,236            | ✓      |        |                      |          |
| 26 | 1,270             | ± 0,005            | 1,270            | ✓      |        |                      |          |
| 27 | 1,284             | ± 0,005            | 1,284            | ✓      |        |                      |          |
| 28 | 1,350             | ± 0,005            | 1,350            | ✓      |        |                      |          |
| 29 | 1,525             | ± 0,0082           | 1,525            | ✓      |        |                      |          |
| 30 | 1,570             | ± 0,005            | 1,572            | ✓      |        |                      |          |
| 31 | R 0,020           | ± 0,005            | 0,020            | ✓      |        |                      |          |
| 32 | R 0,010           | ± 0,005            | 0,010            | ✓      |        |                      |          |

|                               |                              |                      |
|-------------------------------|------------------------------|----------------------|
| <b>Measured by:</b> <u>33</u> | <b>Checked by:</b> <u>mf</u> | <b>QC Inspector:</b> |
| <b>Date:</b> <u>20/07/15</u>  | <b>Date:</b> <u>20/07/20</u> | <b>Date:</b>         |

|                                                |              |
|------------------------------------------------|--------------|
| <b>Engineering Approval:</b><br>(if necessary) | <b>Date:</b> |
|------------------------------------------------|--------------|

| Rev | Date     | Change    | Revised by | Approved |
|-----|----------|-----------|------------|----------|
| B   | 14.07.31 | New Issue | KJ         |          |









**Dart Aerospace Ltd.**  
1270 Aberdeen St  
Hawkesbury, ON  
K6A 1K7  
Canada

**Tel (613) 632-5200**

**PURCHASE ORDER**  
**POHB046808**



**Supplier:** GRO002-VC  
Group Altech  
2455 Halpern  
St Laurent  
QC  
H4S 1N9 Canada  
Phone: 514-335-3666  
Fax: 514-335-3868

**Attention: Grenon, Sylvie**

**Ship To:** 1270 Aberdeen Street  
Hawkesbury  
ON  
K6A 1K7 Canada  
Phone: 613-632-5200

PO No: POHB046808

**PO Date:** 7/29/20

Due Date: 8/6/20

## Purchase Order

**Revision:**

Revision Date:

**Issued By:**

Guerin, Kimberley

Phone: 613-632-5200 Ext: 298

kguerin@dartaero.com

**Via:**

Ground

**Pymt Terms:**

Net 60

**Freight Terms:****Special Comments:**

| Items      |        |          |                  |                                                                                                                                                                                                                                               |                  |         |          |                |                   |         |                  |                |
|------------|--------|----------|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|---------|----------|----------------|-------------------|---------|------------------|----------------|
| Line Item  | Job    | Part     | Drawing          | Description                                                                                                                                                                                                                                   | Status           | Account | Due Date | Order Quantity | Received Quantity | Balance | Unit Price (CAD) | Extended Price |
| 1          | 211498 | 650.8401 | 650.8400 REV.PA3 | Plunger<br>-Issue P/O;<br><br>ELECTROLESS<br>NICKEL PLATE<br>IAW ASTM<br>B733 TYPE 4/5<br>SC 2 AS PER<br>DWG<br><br>-Material type;<br>STEEL 1215<br>***EXTREMELY<br>CRITICAL<br>PARTS***<br><br>-Certificate of<br>Conformity is<br>required | Firmed<br><br>x3 | -       | 8/6/20   | 3 pcs          | 0 pcs             | 3 pcs   | \$13.4375/pcs    | \$40.31        |
|            | 210964 |          |                  |                                                                                                                                                                                                                                               | Firmed<br><br>x3 | -       | 8/6/20   | 3 pcs          | 0 pcs             | 3 pcs   | \$13.4375/pcs    | \$40.31        |
| Sub Total: |        |          |                  |                                                                                                                                                                                                                                               |                  |         |          | 6              | 0                 | 6       |                  | \$80.63        |





Dart Aerospace Ltd.  
1270 Aberdeen St  
Hawkesbury, ON  
K6A 1K7  
Canada

Tel (613) 632-5200

# PURCHASE ORDER

## POHB046808



## Items

| Line Item | Job    | Part    | Drawing        | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Status                 | Account | Due Date | Order Quantity | Received Quantity | Balance | Unit Price (CAD) | Extended Price |
|-----------|--------|---------|----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|---------|----------|----------------|-------------------|---------|------------------|----------------|
| 2         | 218518 | C10-4-2 | C10-4-2 Rev 2A | Lower Lock Roller (Outside Processing - Nickel Plate) - Issue P/O;<br><br>-All noncertified parts specifying a finish of Nickel Plating per QQ-N-290, or parts with drawings that are missing a specification Can be Nickel Plated per ASTM B733 Type 4/5, SC0-SC4 or MIL-C-26074 Class 1/2<br>-Material type 4140<br>-Heat treat must be carried out to specified hardness if noted on the drawing.<br>-Plating thickness must be carried out as specified on the drawing.<br>-Certificate of Conformity is required | Firmed -<br><i>X10</i> |         | 8/6/20   | 10 pcs         | 0 pcs             | 10 pcs  | \$13.4375/pcs    | \$134.38       |

AUG 6 6 2020

Grand Total: \$215.00

*Kimberley*





Dart Aerospace Ltd.  
1270 Aberdeen St  
Hawkesbury, ON  
K6A 1K7  
Canada

Tel (613) 632-5200

**PURCHASE ORDER**  
**POHB046808**



**Order Notes**

Procurement Quality Clauses

A005 right of entry  
A012 chemical and physical test report  
A016 personnel qualification  
A017 raw material identification (as applicable)

A022 Apical Processing  
A024 process certifications  
A026 certification of material conformance

A041 quality management system  
A042 dart notification by supplier  
A043 retention of quality documents

A048 counterfeit parts avoidance, detection, mitigation and disposition program

A049 supplier awareness

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit [www.dartaerospace.com](http://www.dartaerospace.com) for further explanation.

Plex 8/5/20 4:05 PM Dart.Guerin.Kimberley





## Certificat de Conformité / Certificate of Compliance



0 2 9 9 3 0 - 1

## Bon de Livraison / Packing Slip

029930 - 1

2455, Rue Halpern | Saint-Laurent | Québec | H4S 1N9  
Tel: 514-335-3666 Fax: 514-335-3868  
www.groupaltech.com

Livré à / Ship to

**DART AEROSPACE LTD**  
1270 ABERDEEN STREET  
HAWKESBURY, ON, K6A1K7  
CANADA  
Tel.: 613-632-5200 Fax.:

Client / Customer:

**DART AEROSPACE LTD**  
1270 ABERDEEN STREET  
HAWKESBURY, ON, K6A1K7  
CANADA  
BUYER:

| Date expédition<br>Ship date | Créé Par<br>Generated By                                   | Transport / No de Compte<br>Courier / Acc. No.                                                                                                          | Bon de commande Client<br>Customer Purchase Order No |                   |                 |                   |              |                        |
|------------------------------|------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|-------------------|-----------------|-------------------|--------------|------------------------|
| 31-Jul-2020                  | Ian Wilson                                                 |                                                                                                                                                         | POHB046808                                           |                   |                 |                   |              |                        |
| Quantité<br>Lineal           | No. de Série / # Pièces<br>Part Number / Line Item Details | Description pièce(s)                                                                                                                                    | CATG<br>U/M                                          | Comm.<br>/Ordered | Exp/<br>Shipped | Qté NC/<br>NC Qty | Qté<br>Serup | À venir/<br>Back Order |
| 1                            | 650.8401 REV.PA3<br>Rev.                                   | 650.8401 REV.PA3<br>01-E-NIC STEEL 500 [E-NICKEL STEEL 500]<br>ASTM B733 TYPE 4/5<br>SC 2 - 0.0005"                                                     | E-NICKEL STEEL<br>CH                                 | 6                 | 6               | 0                 | 0            | 0                      |
| 2                            | C10-4-2 REV 2A<br>Rev.                                     | ***EXTREMELY CRITICAL PARTS***<br>C10-4-2 REV 2A<br>01-E-NIC STEEL E-NICKEL STEEL<br>QQ-N-290<br>ASTM B733, TYPE 4/5<br>0.0004" - 0.0006"<br>BAKE AFTER | E-NICKEL STEEL<br>CH                                 | 10                | 10              | 0                 | 0            | 0                      |

DAS  
82  
9-89

RECEIVED

AUG 05 2020

DART AEROSPACE LTD.

Notes Additionnelles / Additional Notes

Epaisseur réelle  
Actual ThicknessInspecteur Qualité  
Quality InspectorRéçu par  
Received By

Nous certifions que les pièces énumérées ci-dessus ont été traitées en conformité avec votre commande et vos spécifications et rencontrent les exigences.  
Notre responsabilité financière et légale ne sera pas supérieure au montant de la facture issue.

We hereby certify that the parts listed above have been process in accordance with your purchase order and specifications and are in conformance with your requirements.  
Our financial and legal responsibility will not be higher than the amount of invoice.

P. MUKIL







Dart Aerospace Ltd  
1270 Aberdeen St  
Hawkesbury, ON  
K6A 1K7  
Canada

Tel (613) 632-5200

# PURCHASE ORDER POHB046663



**Supplier:** MCM001-VU  
McMaster-Carr Supply Co,  
P.O. Box 7690  
Chicago, IL 60680-7690 USA  
Phone: 330 995 5500  
Fax: 330 995 9600

**Attention:** N/A,

**Ship To:** 1270 Aberdeen Street  
Hawkesbury  
ON  
K6A 1K7 Canada  
Phone: 613-632-5200

**PO No:** POHB046663

**PO Date:** 6/30/20

**Due Date:** 7/3/20

**Purchase Order**

**Revision:**

**Revision Date:**

**Issued By:** Guerin, Kimberley  
Phone: 613-632-5200 Ext 298  
kgue:in@dartaero.com

**Via:** Ground

**Pymt Terms:** Net 60

**Freight Terms:**

**Special Comments:**

| Items     |        |           |         |                    |                                                                                           |               |         |          |                |                      |         |                  |                |
|-----------|--------|-----------|---------|--------------------|-------------------------------------------------------------------------------------------|---------------|---------|----------|----------------|----------------------|---------|------------------|----------------|
| Line Item | Job    | Part      | Drawing | Supplier Part No   | Description                                                                               | Status        | Account | Due Date | Order Quantity | Received Quantity    | Balance | Unit Price (USD) | Extended Price |
| 1         | 210829 | 1173N124  |         | 10/pk              | O-Ring                                                                                    | Firmed<br>X10 |         | 7/3/20   | 10 Ea          | 0 Ea<br>JUL 03 2020  | 10 Ea   | \$1.375/Ea       | \$13.75        |
| 2         |        | 20825A914 |         | 1/pk               | Dial Indicator<br>Attachmnt Agd-<br>2 Dial                                                | Firmed<br>X1  |         | 7/3/20   | 1 lbs          | 0 lbs<br>JUL 03 2020 | 1 lbs   | \$6.63/lbs       | \$6.63         |
|           |        | 6102N3    |         | 3 ft length        | Tight-<br>Tolerance<br>1215 Carbon<br>Steel Rod,<br>Easy-to-<br>Machine, 5/8"<br>Diameter | Firmed<br>X3  |         | 7/3/20   | 3 ft           | 0 ft<br>JUL 07 2020  | 3 ft    | \$9.933/ft       | \$29.41        |
| 4         |        | 7767181   |         | 6 ft               | Low-Carbon<br>Steel Round<br>Tube, 0.188"<br>Wall<br>Thickness,<br>3/4" OD                | Firmed<br>X6  |         | 7/3/20   | 6 ft           | 0 ft<br>JUL 02 2020  | 6 ft    | \$8.51/ft        | \$51.06        |
| 5         |        | 89855K998 |         | 3 ft length        | Tube                                                                                      | Firmed<br>X15 |         | 7/3/20   | 15 ft          | 0 ft<br>JUL 02 2020  | 15 ft   | \$14.8133/ft     | \$222.20       |
| 6         | 210811 | 92778A067 |         | 25/pk              | 18-8 Stainless<br>Steel Oval-Tip<br>Set Screws, 6-<br>32 Thread,<br>1/8" Long             | Firmed<br>X25 |         | 7/3/20   | 25 Ea          | 0 Ea<br>JUL 03 2020  | 25 Ea   | \$0.1248/Ea      | \$3.12         |
| 7         |        | 9559K41   |         | 10/pk              | O-Ring                                                                                    | Firmed<br>X10 |         | 7/3/20   | 10 Ea          | 0 Ea<br>JUL 03 2020  | 10 Ea   | \$1.268/Ea       | \$12.68        |
| 8         | 210889 | 9642K31   |         | 25/pk              | Trigger Ball                                                                              | Firmed        |         | 7/3/20   | 25 Ea          | 0 Ea                 | 25 Ea   | \$0.3884/Ea      | \$9.71         |
| 9         |        | C45-11-2  | C45     | 90145A510<br>20/pk | Locating Pin                                                                              | Firmed<br>X20 |         | 7/3/20   | 20 Ea          | 0 Ea<br>JUL 03 2020  | 20 Ea   | \$0.423/Ea       | \$8.46         |

Plx 6/30/20 1:03 PM Dart.Guerin.Kimberley

[illegible]



# Packing List

200 Aurora Industrial Pkwy  
Aurora OH 44202-8087  
330-995-5500  
cle.sales@mcmaster.com

Dart Aerospace Ltd  
1270 Aberdeen St  
Hawkesbury ON K6A 1K7  
Canada

Purchase Order  
POHB046663

Order Placed By  
Kim

McMaster-Carr Number  
7440461-02

Page 1 of 2

06/30/2020

| Line | Product                                                                                   | Ordered   | Shipped |
|------|-------------------------------------------------------------------------------------------|-----------|---------|
| 2    | 6102N3 Tight-Tolerance 1215 Carbon Steel Rod, Easy-to-Machine, 5/8" Diameter, 3 Feet Long | 1<br>Each | 1       |

RECEIVED

Shipped separately from our Cleveland warehouse on 06/30

JUL 3 2020

|    |                                                                                                 |            |    |
|----|-------------------------------------------------------------------------------------------------|------------|----|
| 4  | 7767T61 Low-Carbon Steel Round Tube, 0.188" Wall Thickness, 3/4" OD, 6 Feet Long                | 1<br>Each  | 1  |
| 5  | 89955K998 Easy-to-Weld 4130 Alloy Steel Round Tube, 0.188" Wall Thickness, 5/8" OD, 3 Feet Long | 5<br>Each  | 5  |
| 1  | 20825A914 Mitutoyo Model 101039 Flat Back for Plunger-Style Variance Indicator                  | 1<br>Each  | 1  |
| 3  | 1173N124 High-Temperature Soft Silicone O-Ring, 3/32 Fractional Width, Dash Number 124          | 1<br>Pack  | 1  |
| 6  | 92778A067 18-8 Stainless Steel Oval-Tip Set Screws, 8-32 Thread, 1/8" Long                      | 1<br>Pack  | 1  |
| 7  | 93705A195 18-8 Stainless Steel Thread-Locking Socket Head Screw, 6-32 Thread Size, 5/8" Long    | 1<br>Pack  | 1  |
| 8  | 9559K41 Ultra-Chemical-Resistant Rigid PTFE O-Ring, 1/8 Fractional Width, Dash Number 219       | 1<br>Pack  | 1  |
| 10 | 90145A510 18-8 Stainless Steel Dowel Pin, 3/16" Diameter, 1" Long                               | 1<br>Pack  | 1  |
| 11 | 98410A110 External Retaining Ring for 3/16" OD, Beryllium Copper                                | 1<br>Pack  | 1  |
| 12 | 95606A180 Nylon Plastic Washer for 1/2" Screw Size, 0.562" ID, 0.75" OD, Off-White              | 1<br>Pack  | 1  |
| 13 | 7216K5 Hinged Straight-Blade Housing, Hinged, 3-Blade Plug, Grounded, NEMA 5-15, Yellow         | 30<br>Each | 30 |
| 14 | 7216K6 Hinged Straight-Blade Housing, 3-Slot Socket, NEMA 5-15, Yellow                          | 30<br>Each | 30 |

Hubb  
1 - Puro # CPK 029396295



**McMASTER-CARR**

5281005

**Tight-Tolerance 1215 Carbon Steel Rod**  
Easy-to-Machine, 5/8" Diameter

\$29.41 Each

6102N3

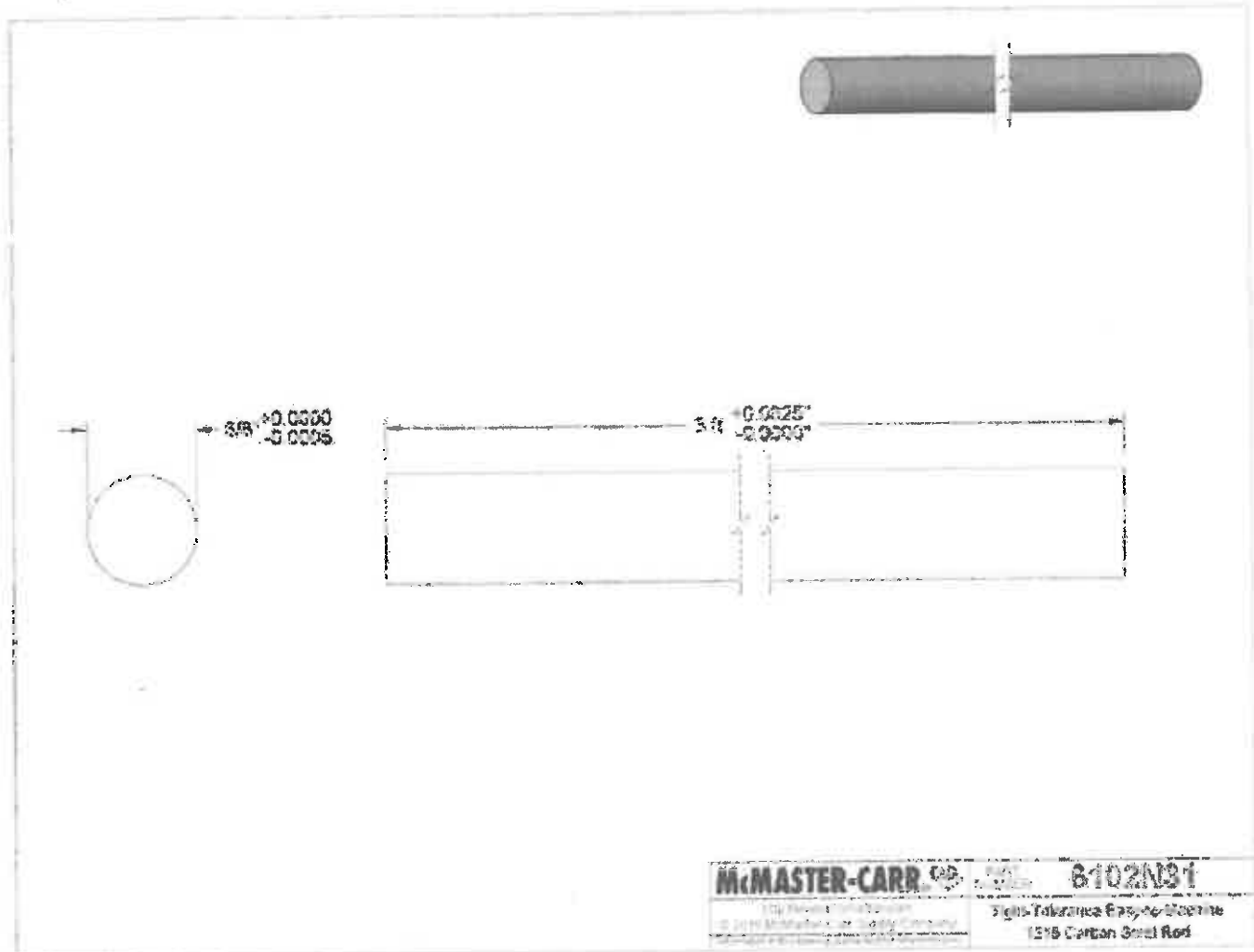


|                                       |                                                                                                                                      |
|---------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| Material                              | 1215 Carbon Steel                                                                                                                    |
| Shape                                 | Rod and Disc                                                                                                                         |
| Shape Type                            | Rods                                                                                                                                 |
| Diameter                              | 5/8"                                                                                                                                 |
| Diameter Tolerance                    | -0.001" to 0"                                                                                                                        |
| Tolerance Rating                      | Tight, Undersized                                                                                                                    |
| Yield Strength                        | Not Rated                                                                                                                            |
| Fabrication                           | Cold Worked                                                                                                                          |
| Hardness                              | Not Rated                                                                                                                            |
| Hardness Rating                       | Medium                                                                                                                               |
| Maximum Hardness After Heat Treatment | Not Rated                                                                                                                            |
| Heat Treatable                        | Yes                                                                                                                                  |
| Certificate                           | Material Certificate with Traceable Lot Number                                                                                       |
| Mechanical Finish                     | Precision Ground                                                                                                                     |
| Appearance                            | Plain                                                                                                                                |
| Temperature Range                     | Not Rated                                                                                                                            |
| Specifications Met                    | ASTM A108                                                                                                                            |
| Straightness Tolerance                | 0.003" per ft.                                                                                                                       |
| Elongation                            | Not Rated                                                                                                                            |
| Material Composition                  |                                                                                                                                      |
| Carbon                                | 0.08%                                                                                                                                |
| Manganese                             | 0.75-1.06%                                                                                                                           |
| Phosphorus                            | 0.04-0.09%                                                                                                                           |
| Sulfur                                | 0.20-0.35%                                                                                                                           |
| Iron                                  | Remainder                                                                                                                            |
| Warning Message                       | Physical and mechanical properties are not guaranteed. They are intended only as a basis for comparison and not for design purposes. |
| Length Tolerance                      | Plus                                                                                                                                 |
| Length                                | 3 ft.                                                                                                                                |
| RoHS                                  | RoHS 3 (2015/863/EU) Compliant                                                                                                       |
| REACH                                 | REACH (EC 1907/2006) (01/16/2020, 205 SVHC) Compliant                                                                                |
| Country of Origin                     | United States                                                                                                                        |

Precision ground and held to a strict tightness tolerance, these rods are ready for turning in a lathe. A lead-free alternative to 12L14, 1215 carbon steel contains the same amount of sulfur and phosphorus for excellent machinability. It is often used for shaft couplings, studs, and pins.

[illegible]

Length, Feet : 3



The information in this 3-D model is provided for reference only.

[illegible]



LIVE 3

# MATERIAL RECEIPT INSPECTION FORM

MATERIAL: 6102N3

PO / BATCH NO: P0413046663

DATE: JUL 08 2020

5286085

MATERIAL CERT REC'D: YES

THICKNESS ORDERED: .625

QUANTITY RECEIVED: 3 FT

THICKNESS RECEIVED: .626

QUANTITY INSPECTED: 3 FT

SHEET SIZE ORDERED: ---

QUANTITY REJECTED: ---

SHEET SIZE RECEIVED: ---

| DESCRIPTION                                        | NCR<br>(Check<br>Y/N) | COMMENTS             |
|----------------------------------------------------|-----------------------|----------------------|
| SURFACE DAMAGE                                     | Y (N)                 |                      |
| CORRECT FINISH                                     | (Y) N                 |                      |
| CORROSION                                          | Y (N)                 |                      |
| CORRECT GRAIN DIRECTION                            | (N) N                 |                      |
| CORRECT MATERIAL PER I.D. DRAWING                  | (N) N                 | ASTM A108            |
| CORRECT THICKNESS                                  | (Y) N                 |                      |
| PHOTO REQUIRED                                     | Y (N)                 |                      |
| CORRECT REF # TO LINK CERT                         | (Y) N                 | 6102N3 McMaster/CARR |
| CORRECT MATERIAL IDENTIFICATION                    | (N) N                 |                      |
| CORRECT M# ON THE MATERIAL                         | (N) N                 |                      |
| DOES THIS MATERIAL REQUIRE<br>ENGINEERING SIGN OFF | Y (N)                 |                      |
| DOES THIS REQUIRE AN<br>EXTRUSION REPORT           | Y (N)                 |                      |

| CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK<br>RECORD RESULTS BELOW |     |     |       |       |         |
|-----------------------------------------------------------------------------------|-----|-----|-------|-------|---------|
|                                                                                   | HRC | HRB | DUR A | DUR D | WEBSTER |
| TYPE OF MATERIAL                                                                  |     |     |       |       |         |
| SIZE OF TEST SAMPLE                                                               |     |     |       |       |         |
| HARDNESS / DUROMETER READING                                                      |     |     |       |       |         |

*Testers located in the Quality Office*

|                     |                          |                                   |             |
|---------------------|--------------------------|-----------------------------------|-------------|
| QC 18 INSPECTION    |                          | ENGINEERING SIGNOFF (if required) |             |
| INSPECTED BY: _____ | DATE: <u>JUL 08 2020</u> | SIGNED OFF BY: _____              | DATE: _____ |

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

^XA^MCY^XZ^XA^SZ2~JSN^LT0^FO407,607^GB156,568,2^FS^FO420,873^A0R,29,30^FH\_^FD\_5F